

Claims

- [c1] 1.A non-lethal cargo projectile, comprising:
- a projectile body;
 - a nose cap attached to a front of the projectile body;
 - a boattail attached to a rear of the projectile body;
 - a fin assembly including a boom attached to the boattail;
 - a parachute assembly disposed in a front of the projectile body;
 - a cable connecting the parachute assembly to the boattail;
 - a fuze disposed in the boattail;
 - a first pair of half cylinders disposed in the projectile body behind the parachute assembly;
 - a first circular disc disposed at a front end of the first pair of half cylinders and a second circular disc disposed at a rear end of the first pair of half cylinders;
 - a second pair of half cylinders disposed in the projectile body in front of the first circular disc; and
 - a payload disposed in a space defined by the first pair of half cylinders and the first and second circular discs.
- [c2] 2.The projectile of claim 1 further comprising shear pins

that connect the nose cap to the front of the projectile body.

- [c3] 3.The projectile of claim 1 further comprising propellant donuts disposed on the boom.
- [c4] 4.The projectile of claim 1 further comprising a swivel connecting the cable to the parachute assembly.
- [c5] 5.The projectile of claim 1 wherein the fuze includes a charge for producing gas.
- [c6] 6.The projectile of claim 1 wherein the payload comprises a non-lethal composition.
- [c7] 7.The projectile of claim 4 wherein the parachute assembly comprises a drogue bag, a drogue parachute attached to the drogue bag, a main parachute disposed in the drogue bag, the main parachute being connected by the cable and swivel to the boattail.
- [c8] 8.The projectile of claim 2 wherein the shear pins comprise one of nylon, wood, and bronze.
- [c9] 9.The projectile of claim 1 wherein the nose cap and the first and second pair of half

cylinders comprise plastic.

[c10] 10. The projectile of claim 1 wherein the projectile body and the first and second circular discs comprise aluminum.